

## Utah Weekly Pertussis Update

2014 data, through MMWR week ending May 2, 2015 (MMWR week 17)

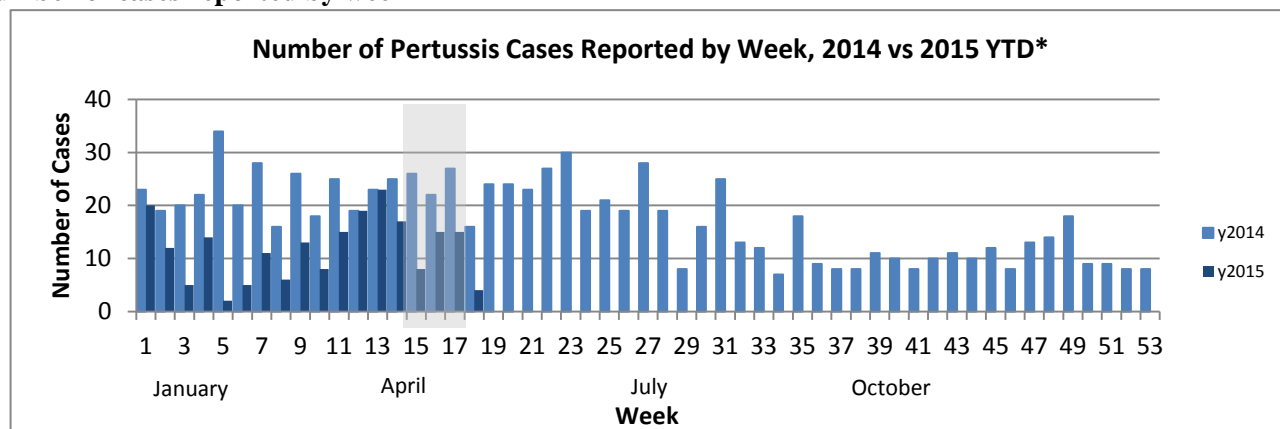
*Data presented in this report are based on current data available and will be subject to change weekly.*

### Data Summary

Total number of cases reported, 2015 year-to-date (YTD)	212	Utah Incidence rate, 2015 year-to-date (YTD) per 100,000 person-years	21.9
Total number of cases reported 2014	926	Utah Incidence rate, 2014 per 100,000 person-years	31.9
Number of cases reported in past week	18	National Incidence rate, 2013 per 100,000 person-years (As of 11/12/2014) *Provisional	8.9
Total number of cases reported, through same time period 2014	393	2015 Hospitalizations	6
Age groups with the highest rates	<1 year	2015 Cases in infants <1 year	22
	1-4 year		

\*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

### Number of cases reported by week



\*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

### 2015 Year-to-Date Incidence Rates, By Age

Age (years)	2015 Cases	2013 population	Rate*, **
<1	22	50,052	131.5
1-4	40	203,815	58.7
5-14	52	505,598	30.8
15-24	34	469,436	21.7
25-34	17	440,736	11.5
35-44	23	372,699	18.5
45-54	6	305,312	5.9
55-64	14	269,589	15.5
65+	4	283,635	4.2
Total	212	2,900,872	21.9

\* Rate is calculated per 100,000 person years.

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

\*\*2013 population estimate update as of 11/4/2014 rates may vary compared to previous reports.

### School Age Incidence Rates, 2015 Year-to-Date

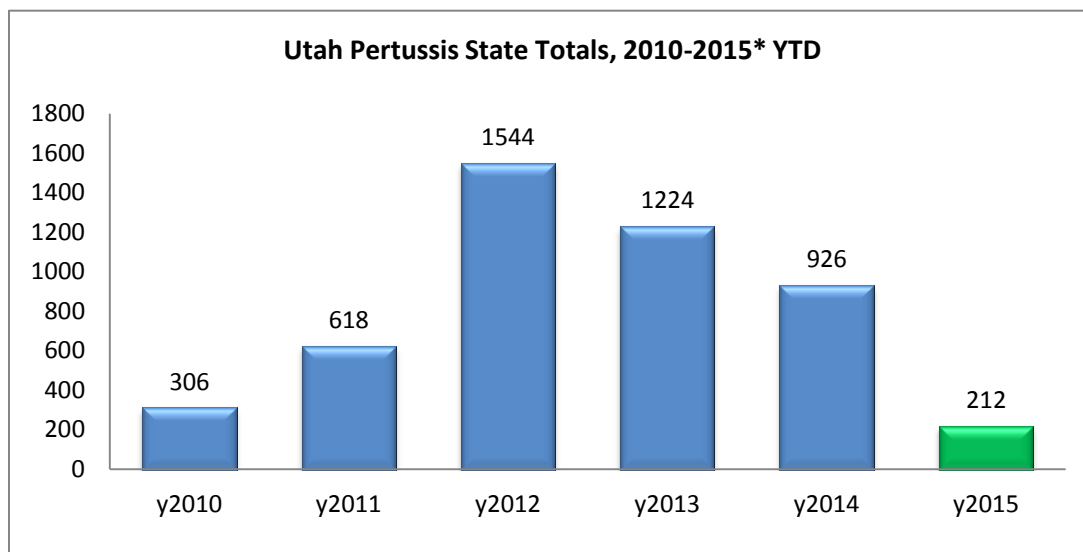
Grade	Age (years)	2015 Cases	2013 Population	Rate*
Preschool	3-4	93	103,602	268.6
Kindergarten	5	5	53,177	28.1
1	6	5	52,869	28.3
2	7	4	52,063	23.0
3	8	11	51,809	63.5
4	9	4	51,080	23.4
5	10	5	50,567	29.6
6	11	6	48,961	36.7
7	12	5	49,008	30.5
8	13	4	48,884	24.5
9	14	3	47,180	19.0
10	15	9	46,321	58.1
11	16	9	45,914	58.6
12	17	7	44,889	46.7

\* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

### Utah Case Counts of Pertussis, 2008-2014



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

\* 2015 data includes pertussis cases reported year to date. 2010-2014 data reflects cases reported during the entire calendar year for each year.

## Incidence of pertussis by Local Health Department, 2015 YTD

Local Health Department	2015 Cases	Rate*
Bear River	0	0.0
Central Utah	8	31.3
Davis County	8	7.4
Salt Lake Valley	48	13.3
San Juan County	11	219.8
Southeast Utah	1	7.3
Southwest Utah	3	4.2
Summit County	40	310.9
Tooele County	2	9.8
TriCounty	0	0.0
Utah County	28	15.2
Wasatch County	7	79.2
Weber-Morgan	24	28.9

\* Rate is calculated per 100,000 person-years using 2013 Utah population estimates

